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Certificate No. TC- 5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2018-08-23-06 **Date: 27/08/2018**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)

Agency : Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/80/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-08-18

Sample ID No : 2018-08-23-06 /05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/08/2018	27/08/2018	149.31 X 151.43 X 150.97	22610	8.195	416.0	18.4	17.7
2	Drain Concrete	M20	20/08/2018	27/08/2018	150.33 X 150.49 X 150.87	22623	8.131	386.9	17.1	
3	Drain Concrete	M20	20/08/2018	27/08/2018	150.63 X 150.79 X 150.14	22713	8.208	399.8	17.6	

Note:
The results pertain to the samples received and tested.
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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig Date BANGALORE

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Certificate No : TC- 5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : **CP-2018-08-23-06**

Date: 17/09/2018

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)

Agency : Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010

Customer's Reference : BBMP/EE/DD/WO/80/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-08-18

Sample ID No : 2018-08-23-06 /06

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/08/2018	17/09/2018	150.22 X 150.97 X 150.47	22679	8.095	510.3	22.5	22.3
2	Drain Concrete	M20	20/08/2018	17/09/2018	150.97 X 150.71 X 150.34	22753	8.116	491.5	21.6	
3	Drain Concrete	M20	20/08/2018	17/09/2018	150.72 X 150.95 X 150.33	22751	8.142	521.0	22.9	

Note:

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ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬೆಂಗಳೂರು.

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Quality Manager

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Certificate No : TC- 1548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID	:	**CP-2018-08-23-06**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-06 /07
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 27/08/2018

Date of test : 27/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	20/08/2018	27/08/2018	150.22 X 150.54 X 150.55	22614	8.231	418.4	18.5	18.2
2	Drain Concrete	M20	20/08/2018	27/08/2018	151.48 X 150.71 X 149.48	22830	8.268	397.2	17.4	
3	Drain Concrete	M20	20/08/2018	27/08/2018	148.69 X 150.75 X 151.37	22415	8.285	416.9	18.6	

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ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

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Format No: CPTR/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/09/2018

Lab ID	:	CP-2018-08-23-06
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd T Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-06 /08
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Concrete	M20	20/08/2018	17/09/2018	149.48 X 149.87 X 150.47	22440	8.168	517.5	23.1	20.2
2	Drain Concrete	M20	20/08/2018	17/09/2018	151.73 X 150.78 X 149.83	22878	8.280	521.6	22.8	
3	Drain Concrete	M20	20/08/2018	17/09/2018	148.53 X 150.54 X 151.48	22360	8.264	529.9	23.7	

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Certificate No.: TC- 9561

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TR/01

Lab ID	:	**CP-2018-08-23-06**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K.R.I.D.L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-06 /09
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 28/08/2018

Date of test : 28/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/08/2018	28/08/2018	151.22 X 150.76 X 150.55	22798	8.176	399.0	17.5	17.8
2	Drain Concrete	M20	21/08/2018	28/08/2018	150.81 X 149.83 X 151.09	22567	8.098	408.5	18.1	
3	Drain Concrete	M20	21/08/2018	28/08/2018	151.37 X 151.99 X 150.38	22568	8.156	399.5	17.7	

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-08-23-06** **Date: 18/09/2018**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to roads and drains at 10th cross mahalakshmi Nagara in Ward No.14(Bagalagunte)
Agency	:	Technical Manager West, K R I D L, Project Implementation Unit, No.280, 59th Cross, 17th C Main road, 3rd Y Block, Rajajinagar, Bangalore-560010
Customer's Reference	:	BBMP/EE/DD/WO/80/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-08-18
Sample ID No	:	2018-08-23-06 /10
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/09/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	21/08/2018	18/09/2018	150.44 X 150.34 X 150.87	22617	8.150	531.5	23.5	23.6
2	Drain Concrete	M20	21/08/2018	18/09/2018	150.21 X 150.21 X 150.29	22563	8.218	528.0	23.4	
3	Drain Concrete	M20	21/08/2018	18/09/2018	150.77 X 150.35 X 150.89	22668	8.299	539.5	23.8	

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